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| PTO/SB/08A SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT JUL 11 2003 (Use as many sheets as necessary) | | | | Complete if Known | |
| | | | | Application Number | 10/002,292 |
| | | | | Filing Date | November 15, 2001 |
| | | | | Confirmation Number | 2146 |
| | | | | First Named Inventor | Brian Ward et al. |
| | | | | Group Art Unit | 1643 |
| | | | | Examiner Name | TBD |
| Sheet | 1 | of | 1 | Attorney Docket No. | SGM 6938.1 |

| U.S. PATENT DOCUMENTS | | | | | |
|-----------------------|-----------------------|----------------------|--------------------------------------|---|---|
| Examiner Initials* | Cite No. ¹ | U.S. Patent Document | | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY |
| | | Number | Kind Code ² (if known) | | |
| RA | 49 | 5,859,231 | A | Shaw et al. | 01-12-1999 |
| | 50 | 6,087,103 | A | Burner | 07-11-2000 |
| | 51 | 6,087,112 | A | Dale | 07-11-2000 |
| RA | 52 | 6,495,318 | B2 | Harney | 12-17-2002 |

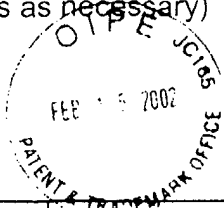
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|-----------------------|----------|----------------------|--------------------------|---|---|
| Examiner Initials* | Cite No. | U.S. Patent Document | | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY |
| | | Number | Kind Code* (if known) | | |
| 9294 | 1 | 6,140,086 | | Fox, et al. | 10-31-2000 |
| | 2 | 5,856,144 | | Mierendorf, et al. | 01-05-1999 |
| | 3 | 5,744,306 | | Murtagh, Jr., et al. | 04-28-1998 |
| | 4 | 5,683,869 | | Shaw, et al. | 11-04-1997 |
| | 5 | 5,688,669 | | Murtagh | 11-18-1997 |
| | 6 | 5,659,027 | | Spielvogel, et al. | 08-19-1997 |
| | 7 | 5,604,098 | | Mead, et al. | 02-18-1997 |
| | 8 | 5,595,895 | | Miki, et al. | 01-21-1997 |
| | 9 | 5,594,115 | | Sharma | 01-14-1997 |
| | 10 | 5,580,759 | | Yang, et al. | 12-03-1996 |
| | 11 | 5,523,221 | | Weiner | 06-04-1996 |
| | 12 | 5,518,900 | | Nikiforov, et al. | 05-21-1996 |
| | 13 | 5,518,901 | | Murtagh | 05-21-1996 |
| | 14 | 5,487,993 | | Herrnstadt, et al. | 01-30-1996 |
| | 15 | 5,284,933 | | Dobeli, et al. | 02-08-1994 |

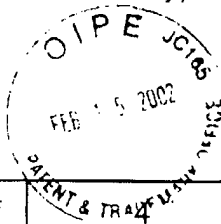
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| | | | |
|----|-----------|--------------------|------------|
| 16 | 5,310,663 | Dobeli, et al. | 05-10-1994 |
| 17 | 5,260,427 | Spielvogel, et al. | 11-09-1993 |
| 18 | 5,075,227 | Hagen | 12-24-1991 |
| 19 | 4,851,341 | Hopp, et al. | 07-25-1989 |
| 20 | 4,800,159 | Mullis, et al. | 01-24-1989 |
| 21 | 4,683,195 | Mullis, et al. | 07-28-1987 |
| 22 | 4,683,202 | Mullis | 07-28-1987 |
| 23 | 4,682,195 | Yilmaz | 07-21-1987 |
| 24 | 4,569,794 | Smith, et al. | 02-11-1986 |
| 25 | 4,532,207 | Brewer, et al. | 07-30-1985 |
| 26 | 4,521,509 | Benkovic, et al. | 06-04-1985 |

FOREIGN PATENT DOCUMENTS

OTHER ART - NON PATENT LITERATURE DOCUMENTS

| Examiner Initials* | Cite No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
|--------------------|----------|--|----------------|
| 9/24 | 27 | OKADA, ET AL., Efficient directional cloning of recombinant adenovirus vectors using DNA-protein complex, Nucleic Acids Research, 1998, 26(8):1947-1950 | |
| 9/24 | 28 | WONG, ET AL., A novel method for producing partial restriction digestion of DNA fragments by PCR with 5-methyl-CTP, Nucleic Acids Research, 1997, 25(20):4169-4171 | |

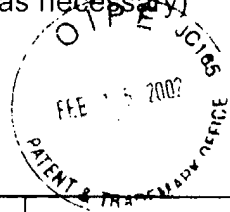
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| | | |
|----|---|--|
| 29 | HSIAO, Exonuclease III induced ligase-free directional subcloning of PCR products, Nucleic Acids Research, 1993, 21(23):5528-5529 | |
| 30 | MEAD, ET AL., A universal method for the direct cloning of PCR amplified nucleic acid, Bio/Technology, 1991, 9:657-663 | |
| 31 | MARCHUK, ET AL., Construction of T-vectors, a rapid and general system for direct cloning of unmodified PCR products, Nucleic Acids Research, 19(5):1154 | |
| 32 | HOLTON, ET AL., A simple and efficient method for direct cloning of PCR products using ddT-tailed vectors, Nucleic Acids Research, 1990, 19(5):1156 | |
| 33 | PUTNEY, ET AL., A DNA fragment with an α -phosphorothioate nucleotide at one end is asymmetrically blocked from digestion by exonuclease III and can be replicated <i>in vivo</i> , 1981, 75(12):7350-7354 | |
| 34 | PELHAM, ET AL., Eur. J. Biochem., 1976, 67:247 | |
| 35 | UHLER, ET AL., Gene, 1983, 33:360 | |
| 36 | SASSENFIELD, ET AL., Bio Technology, 1984, 2:76 | |
| 37 | MELTON, ET AL., Nucleic Acid Res., 1984, 12:7655 | |
| 38 | EVAN, ET AL., Mol Cell Biol., 1985, 5:3610-3616 | |
| 39 | LABEIT, ET AL., A new method of DNA sequencing using deoxynucleoside alpha-thiotriphosphates, DNA, 1986, 5(2):173-177 | |
| 40 | DYATKINA, ET AL., Terminating substrates of DNA polymerases: synthesis and functional study, Nucleic Acids Symp. Ser., 1987, 18:117-120 | |
| 41 | LABEIT, ET AL., Meth. Enzymol., 1987, 155:160 | |
| 42 | NAKAMAYE, ET AL., Direct sequencing of polymerase chain reaction amplified DNA fragments through the incorporation of deoxynucleoside alpha-thiotriphosphates, Nucleic Acids Res., 1988, 16(21):9947-9959 | |

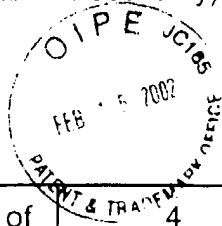
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| | | | |
|--|----|--|--|
| | 43 | HOPP, ET AL., Biotechnology, 1988, 6:420-4 | |
| | 44 | SMITH, ET AL., Gene, 1988, 67:31 | |
| | 45 | SAIKI, ET AL., Science, 1988, 239:487-491 | |
| | 46 | PRICKETT, ET AL., Bio-Techniques, 1989, 7:580 | |
| | 47 | KOLODZIEJ, ET AL., Methods Enzymol., 1991, 194:508-519 | |
| | 48 | KALUZ, ET AL., NUCLEIC Acids Research, 1992, 20:4360-4370 | |

| | | | |
|-----------------------|---------|--------------------|--------|
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